

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claims 1-6 (Cancelled)

7. (New) A packaging filling apparatus in which a web-form packaging material having a laminated structure and a conductive layer adjacent to a sealing property thermoplastic layer, is longitudinally sealed to be formed into a tubular shape and a fluid product is filled in the tube, the package filling apparatus comprising:

a transversal sealing apparatus which performs, at longitudinally spaced apart locations on the tube, transversal sealing in a transversal direction of the tube to form transversal sealing bands on the tube;

a cutting apparatus which cuts the tube in the transversal sealing bands to produce a first forming body which is subsequently formed into a packaging filling container of a final configuration;

the transversal sealing apparatus comprising a high-frequency oscillator, a controller connected to the high-frequency oscillator, an inductor connected to the high-frequency oscillator and receiving output from the high-frequency oscillator to generate a magnetic field in the packaging material, and a sealing quality control means transmitting a control signal to the controller based on a statistical relation between a plurality of different effect factors affecting quality of

the transversal sealing and the quality of the transversal sealing, the controller controlling the high-frequency oscillator based on the control signal from the sealing quality control means.

8. (New) The packaging filling apparatus according to claim 7, wherein the plurality of different effect factors include a moisture percentage contained in the web-form packaging material, with or without a laminated metal evaporated film, temperature of the fluid product filled in the tube, characteristics of the sealing property thermoplastic layer of the web-form packaging material, and thickness of the conductive layer.

9. (New) The packaging filling apparatus according to claim 7, wherein the plurality of different effect factors includes an amount of energy output from the high-frequency oscillator and output impedance from the high-frequency oscillator.

10. (New) The packaging filling apparatus according to claim 7, further comprising a detector and/or input means connected to the transversal sealing apparatus for providing the plurality of different effect factors.

11. (New) A transversal sealing apparatus for a packaging filling apparatus in which a web-form packaging material having a laminated structure and a conductive layer adjacent to a sealing property thermoplastic layer is longitudinally sealed to be formed into a tubular shape, and a fluid product is filled in the tube, the transversal sealing apparatus comprising:

a high-frequency oscillator;
an inductor connected to the high-frequency oscillator and receiving output from the high-frequency oscillator to generate a magnetic field in the packaging material to perform transversal sealing of the tube producing a transverse sealing band in the tube;
a controller connected to the high-frequency oscillator; and
sealing quality control means connected to the controller to transmit a control signal to the controller based on a statistical relation between a plurality of different effect factors affecting quality of the transversal sealing and the quality of the transversal sealing, the controller controlling the high-frequency oscillator based on the control signal from the sealing quality control means.

12. (New) The transversal sealing apparatus according to claim 11, wherein the plurality of different effect factors include a moisture percentage contained in the web-form packaging material, with or without a laminated metal evaporated film, temperature of the fluid product filled in the tube, characteristics of the sealing property thermoplastic layer of the web-form packaging material, and thickness of the conductive layer.

13. (New) The transversal sealing apparatus according to claim 11, wherein the plurality of different effect factors includes an amount of energy output from the high-frequency oscillator and output impedance from the high-frequency oscillator.

14. (New) The transversal sealing apparatus according to claim 11, further comprising a detector and/or input means connected to the transversal sealing apparatus for providing the plurality of different effect factors.